

Fig.1

Fig.2

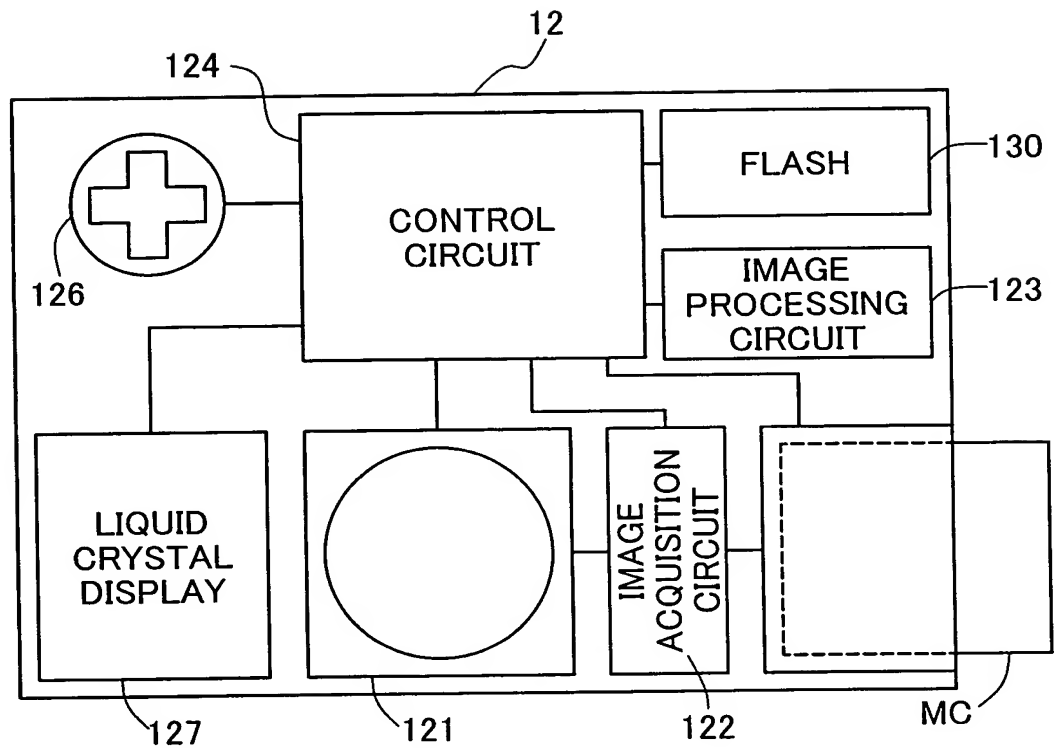


Fig.3

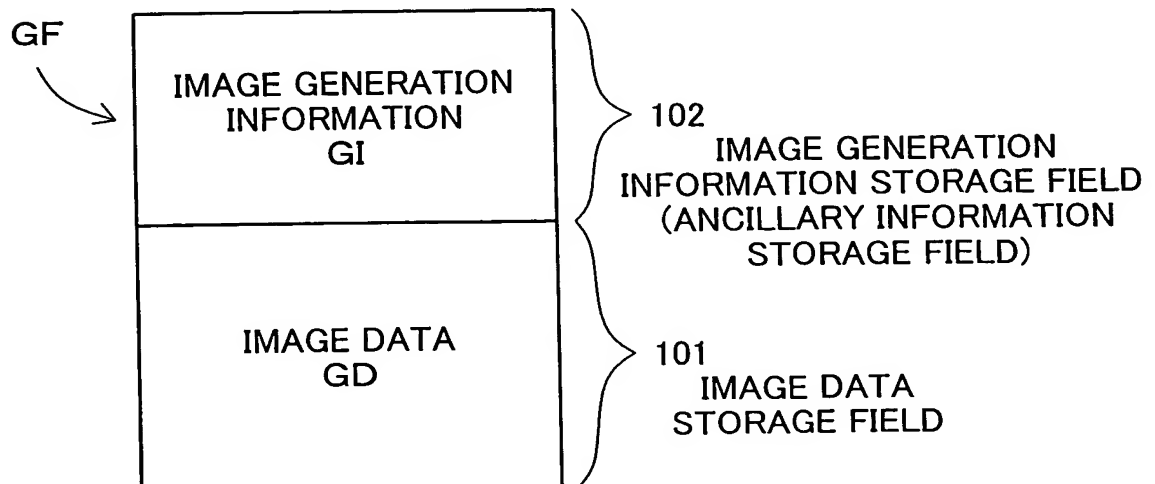
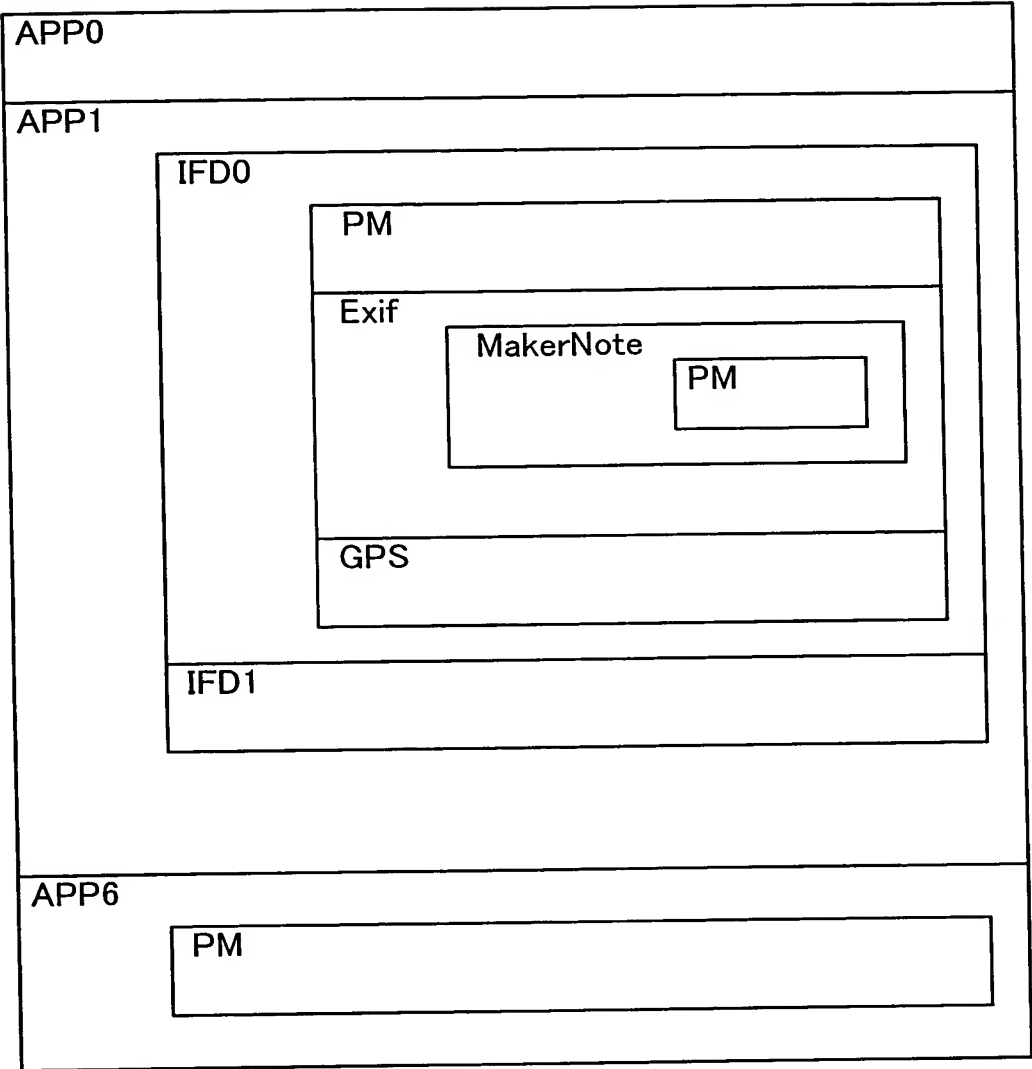


Fig.4



•
•
•



Fig.5

Tag name	Parameter value
Aperture value	F8
Exposure program	3
Exposure time	1/125 (sec.)
Shutter speed	7 (APEX)
Flash	<ul style="list-style-type: none">• auto flash mode• flash on• reflected light sensor present• reflected light sensed
Lens focal length (35 mm film basis)	20.70 (mm)
Subject area	<ul style="list-style-type: none">• center coordinates (640, 512)• width (324)• height (375)



Fig.6

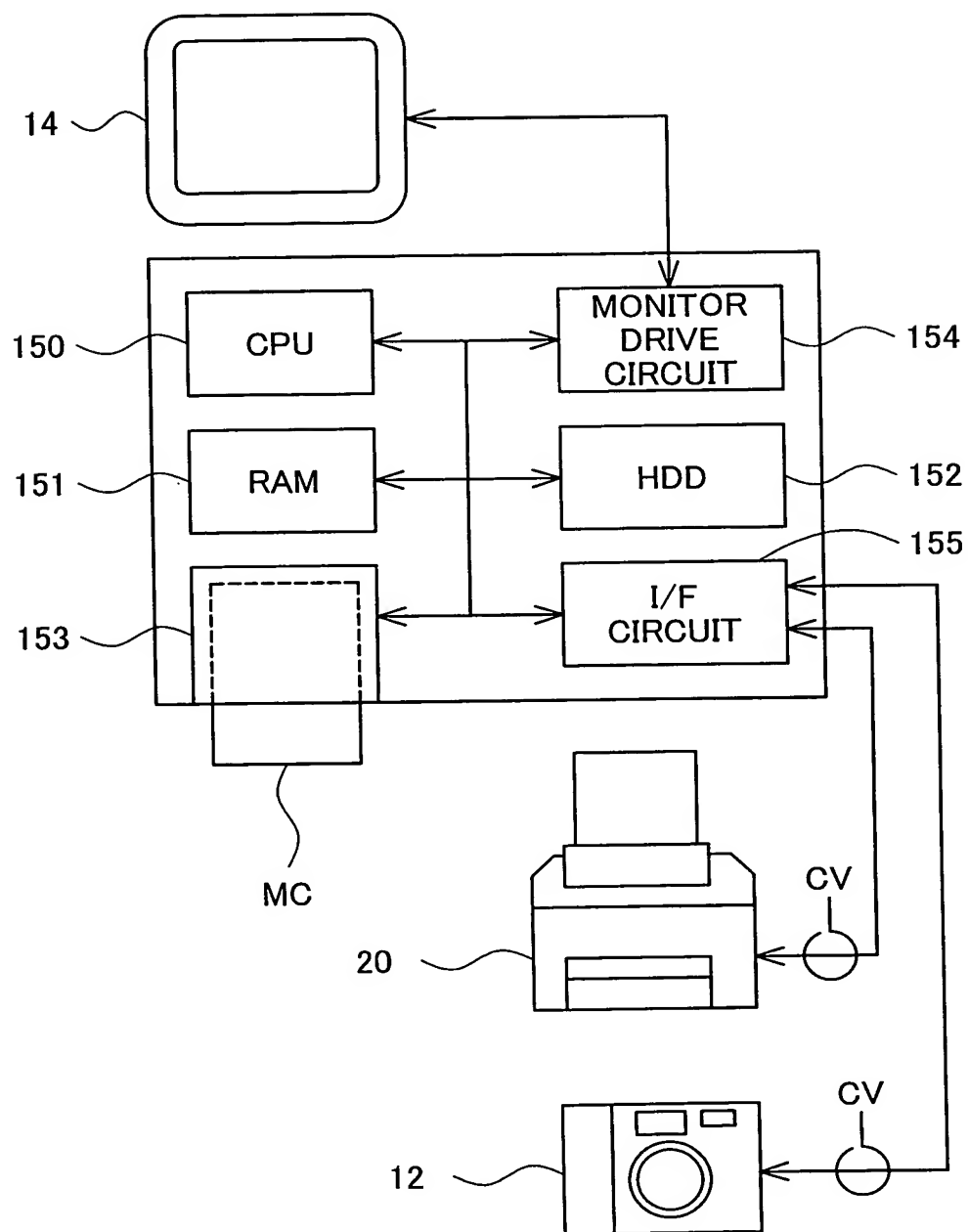


Fig.7

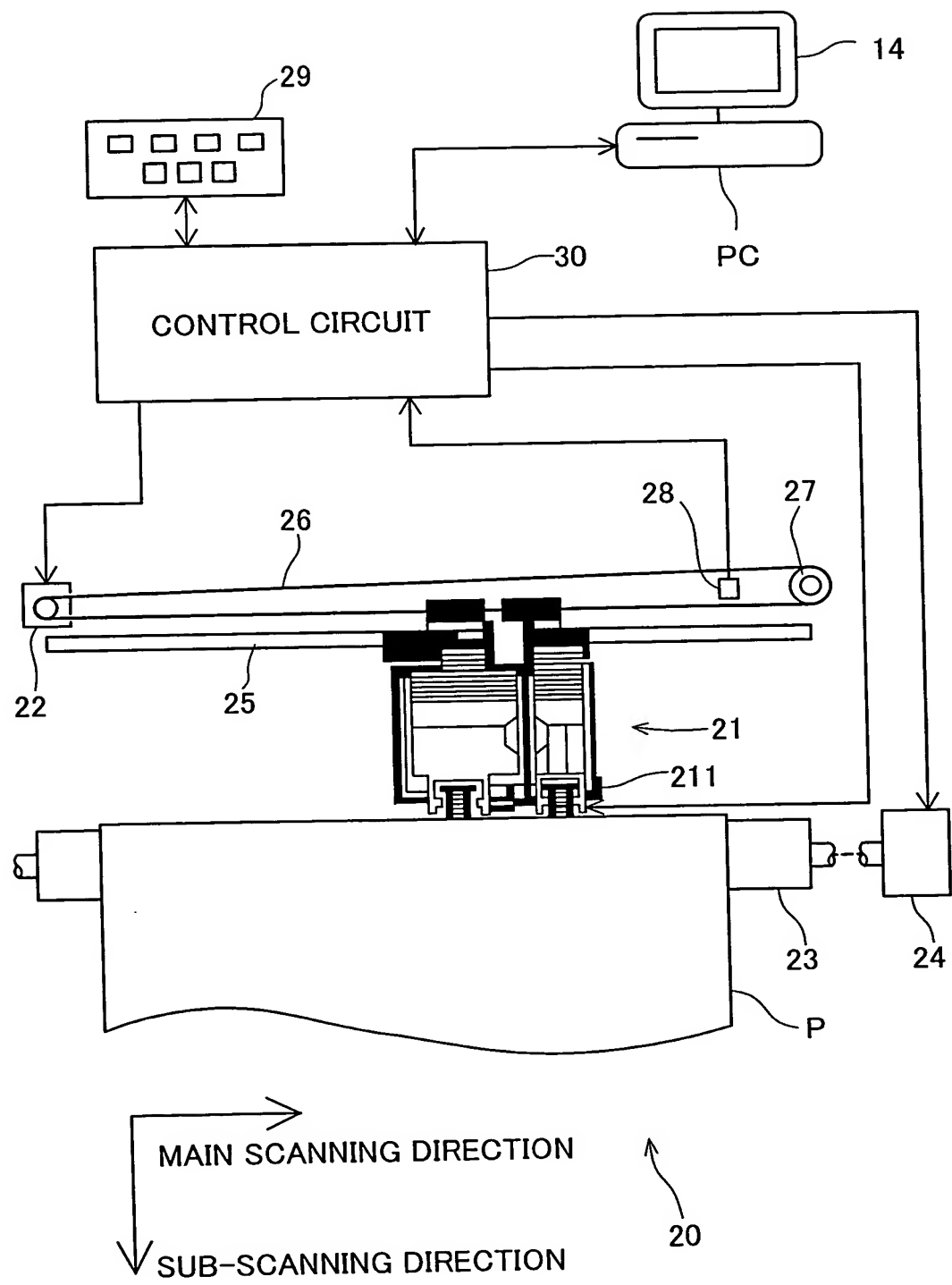


Fig.8

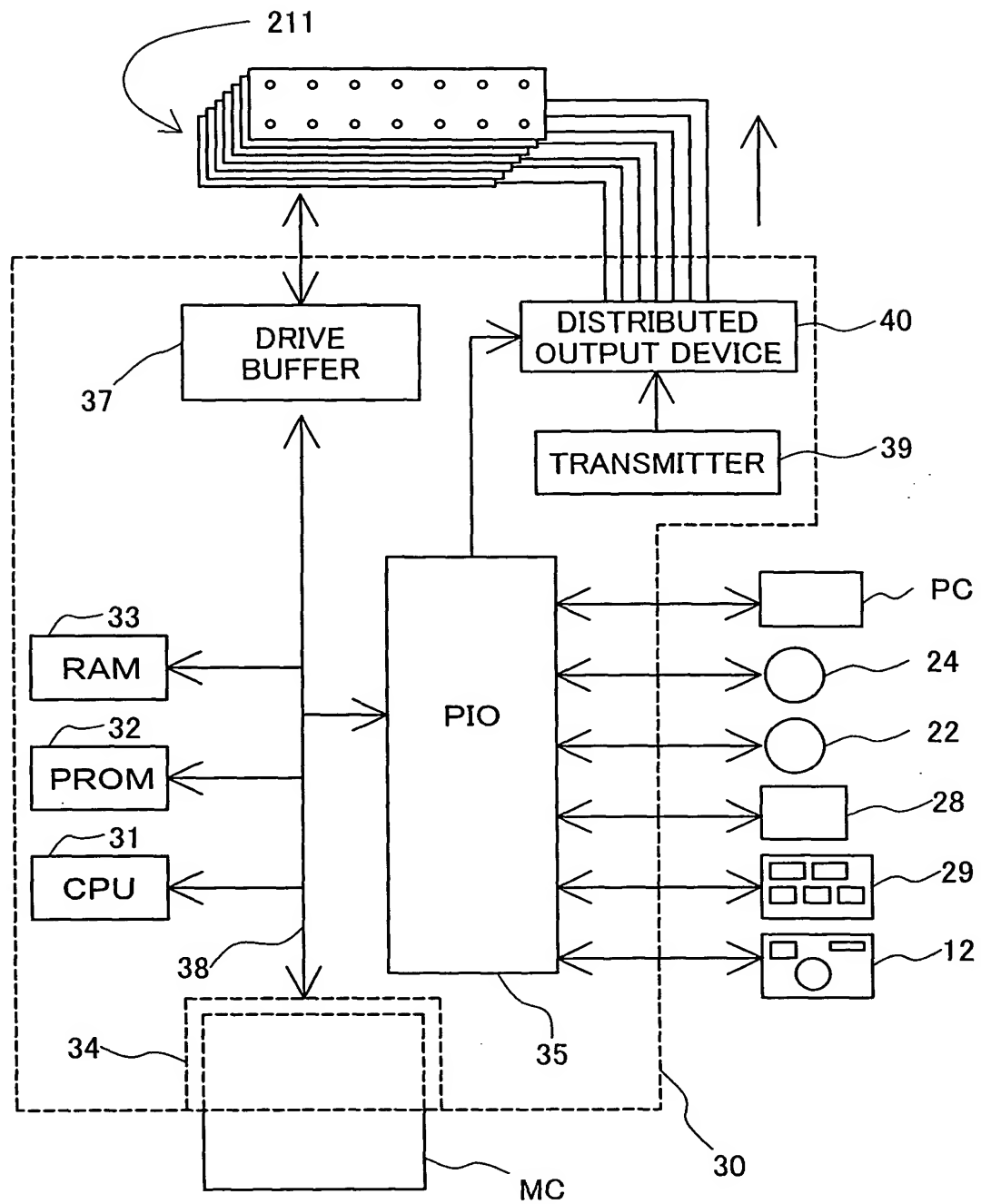


Fig.9

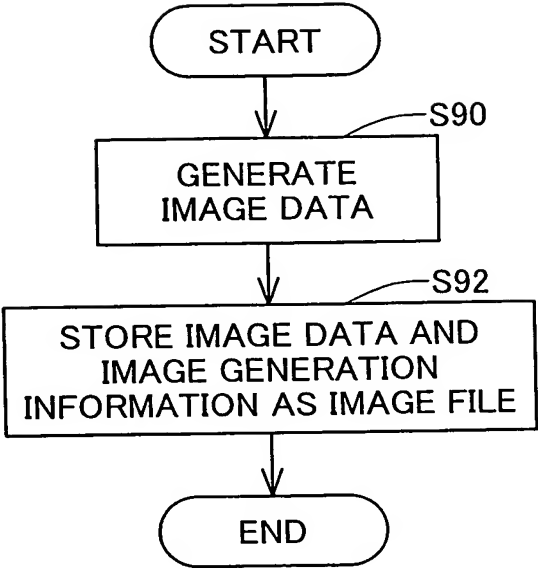


Fig.10

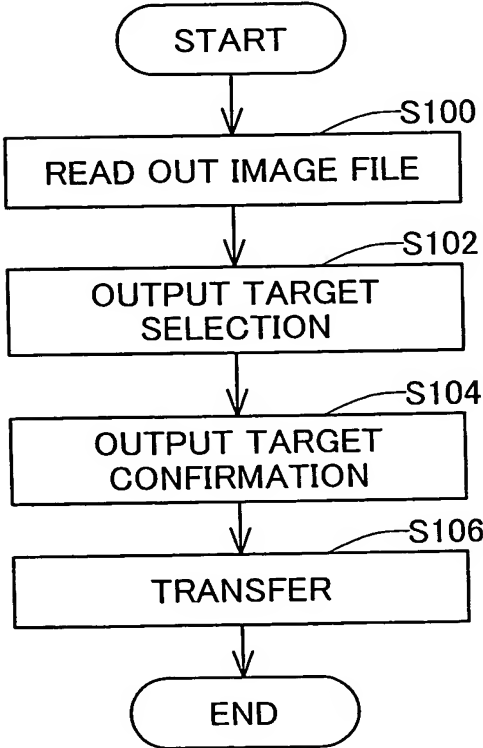
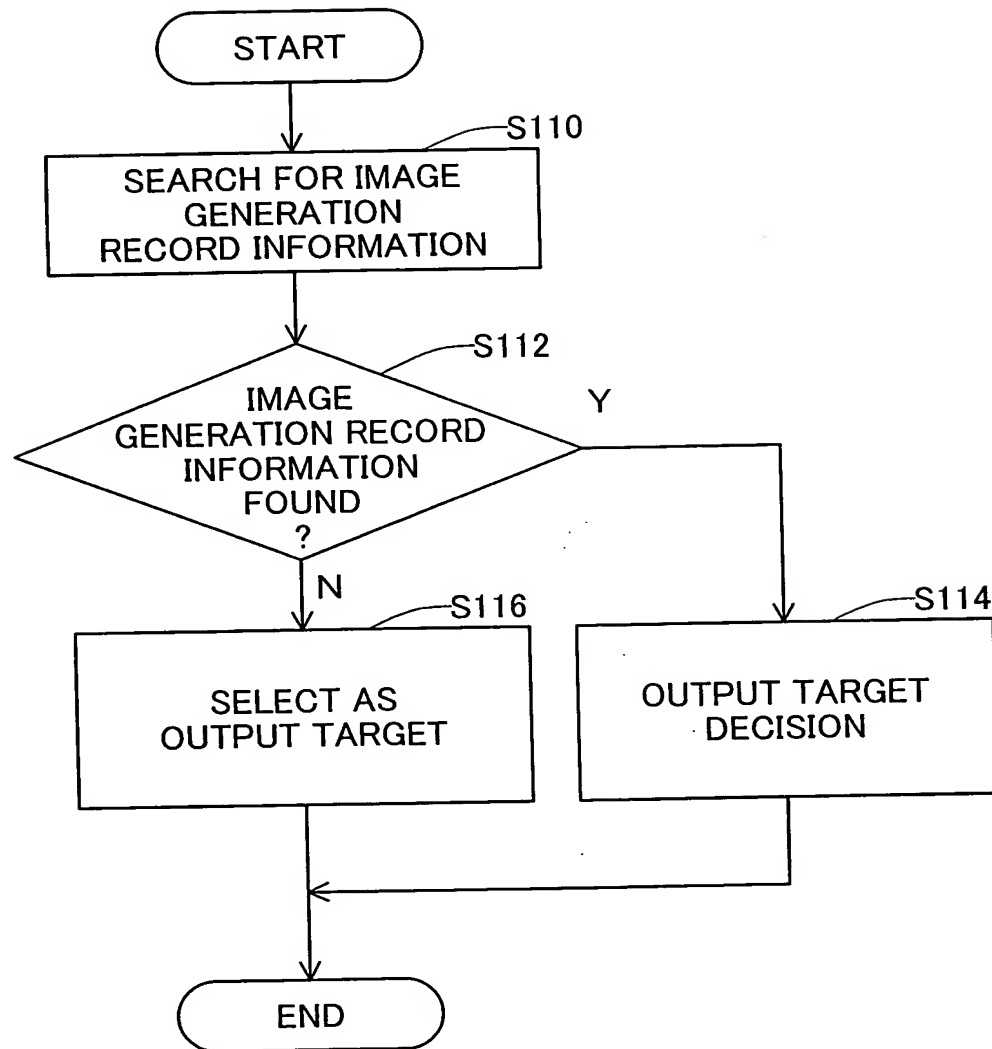


Fig.11



Embodiment 1 of Image Selection Based on Sharpness Characteristic of an Image

Fig.12(a)

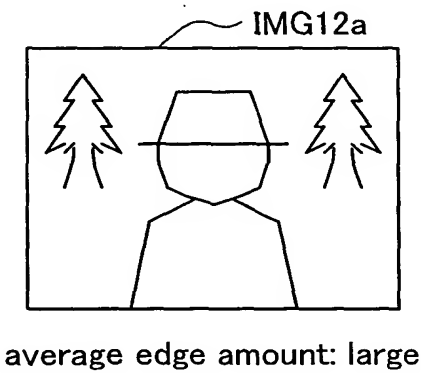


Fig.12(b)

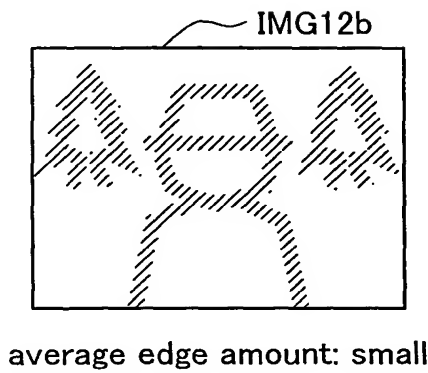


Fig.12(c)

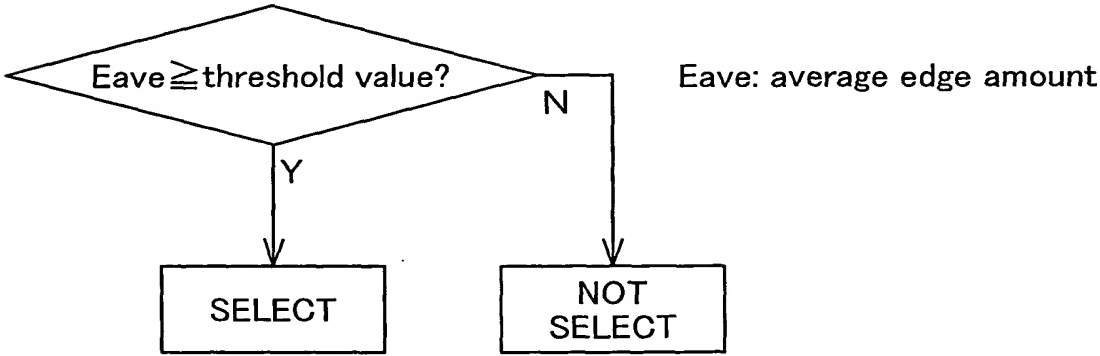


Fig.13

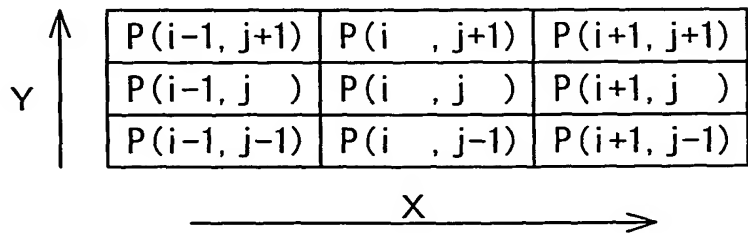
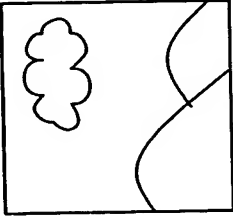
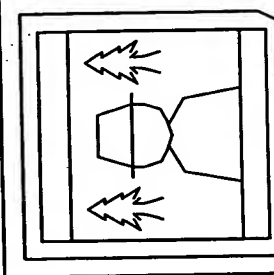


Fig.14

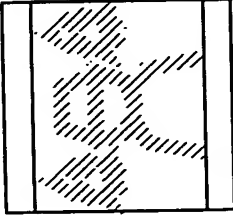
Select images for output



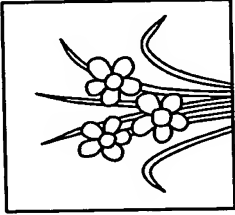
No. 1x1



No. 2x1



No. 3x0



No. 4x1

Image information
in selection

file nameTest.JPG

file size45KB

image size840x680Pixel

average edge amount22

START OUTPUT

Fig.15(a)

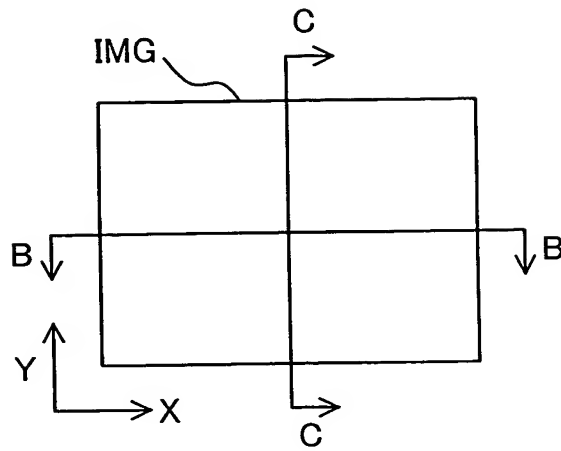


Fig.15(c)

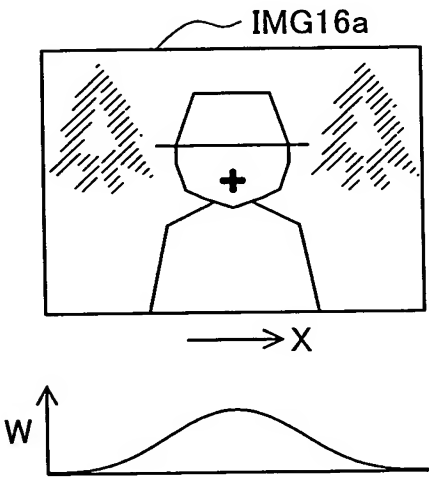


Fig.15(b)



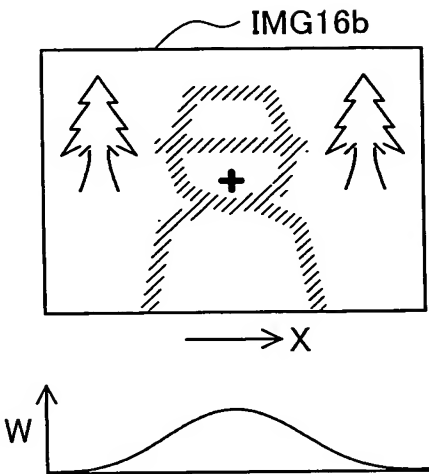
Embodiment 2 of Image Selection Based on Sharpness Characteristic of an Image

Fig.16(a)



weighted average
edge amount large

Fig.16(b)



weighted average
edge amount small

Fig.16(c)

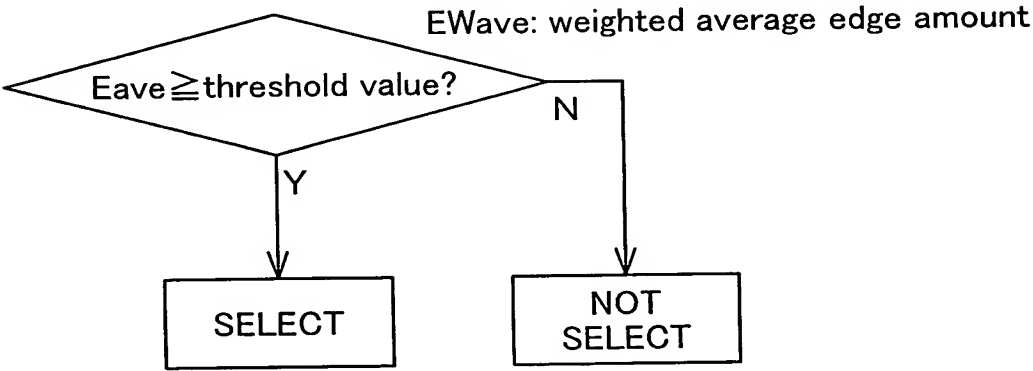


Fig.17(a)

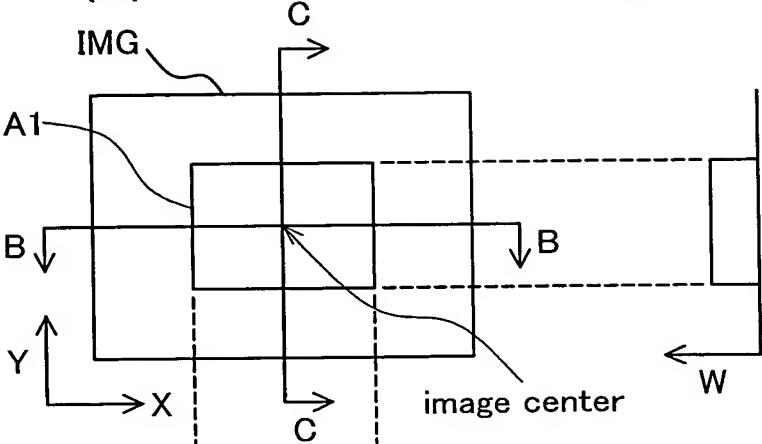


Fig.17(c)

Fig.17(b)



Fig.18(a)

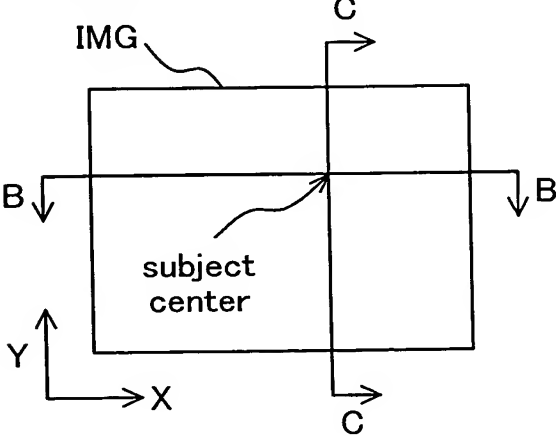


Fig.18(c)

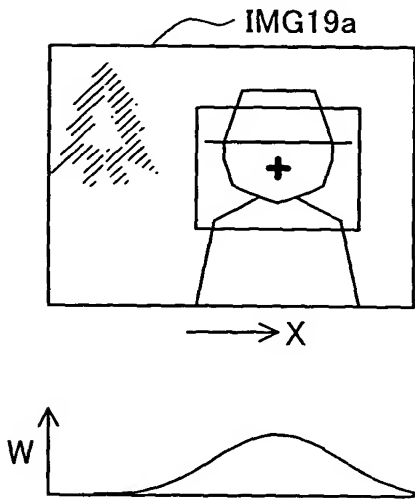


Fig.18(b)



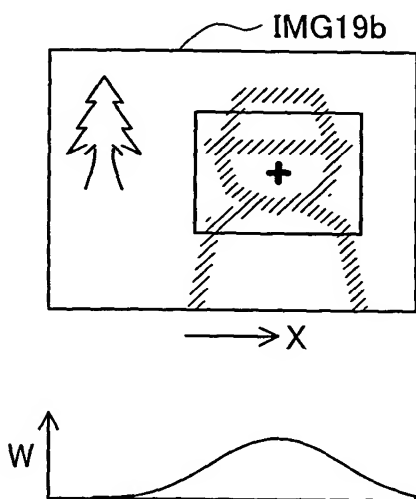
Embodiment 3 of Image Selection Based on Sharpness
Characteristic of an Image

Fig.19(a)



weighted average edge
amount large

Fig.19(b)



weighted average edge
amount small

Fig.20(a)

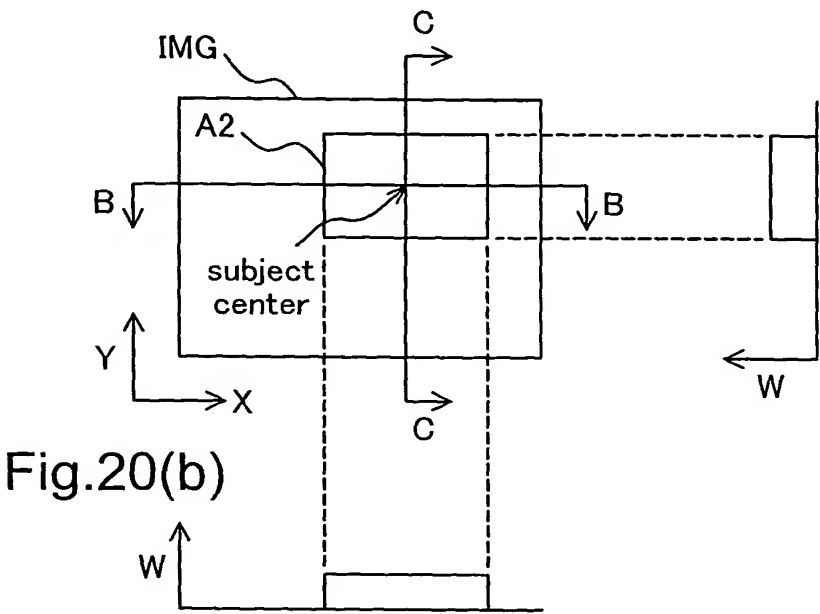


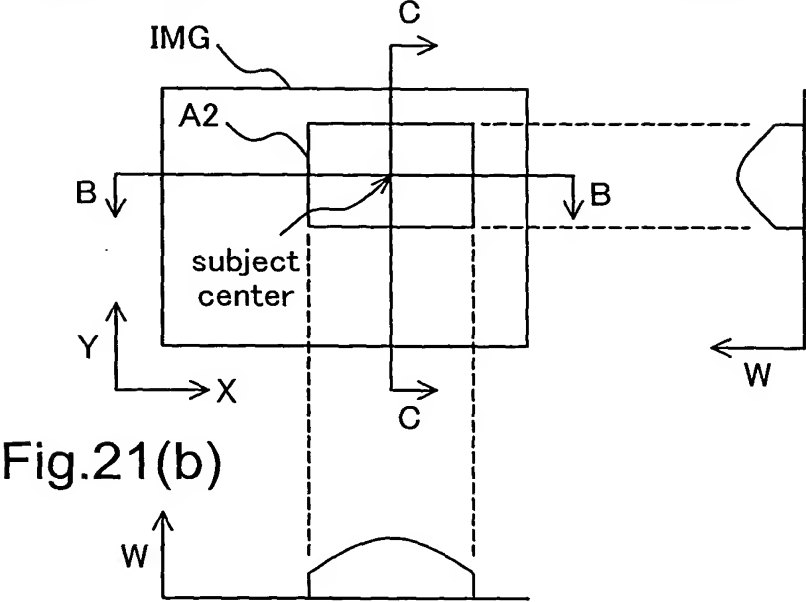
Fig.20(c)

Fig.20(b)



Fig.21(a)

Fig.21(c)



Embodiment 4 of Image Selection Based on Sharpness Characteristic of an Image

Fig.22(a)

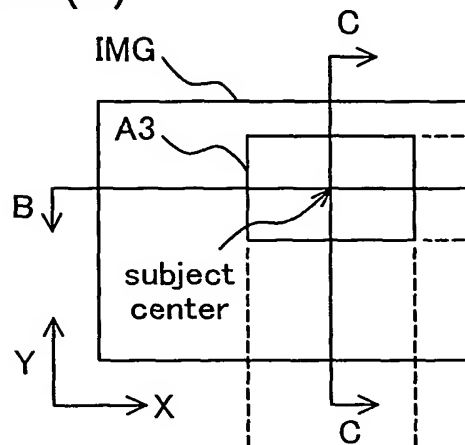


Fig.22(c1) Fig.22(c2)

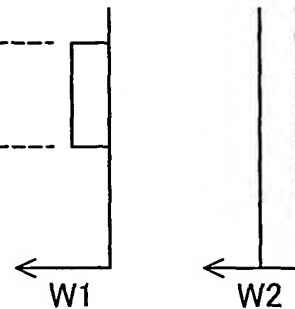


Fig.22(b1)



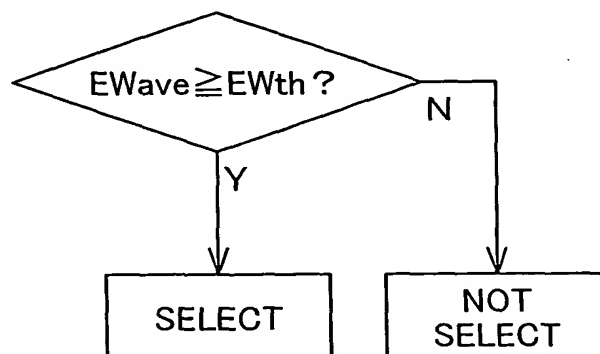
Fig.22(b2)



Fig.22(d)

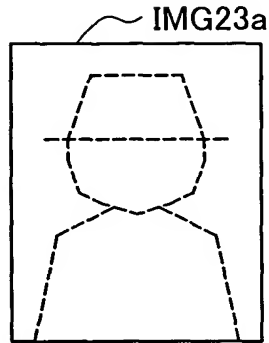
EWave: weighted average edge amount (calculated using W1)

EWth: threshold value (calculated using W2)



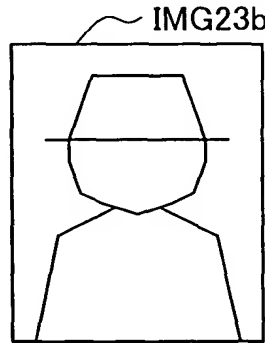
Embodiment 1 of Image Selection Based on
Brightness Characteristic of an Image

Fig.23(a)



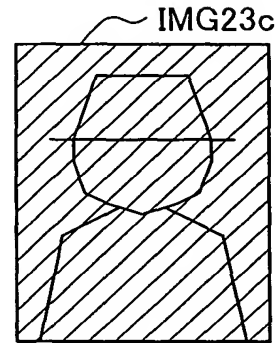
high brightness
large average
brightness value

Fig.23(b)



proper brightness
proper average
brightness value

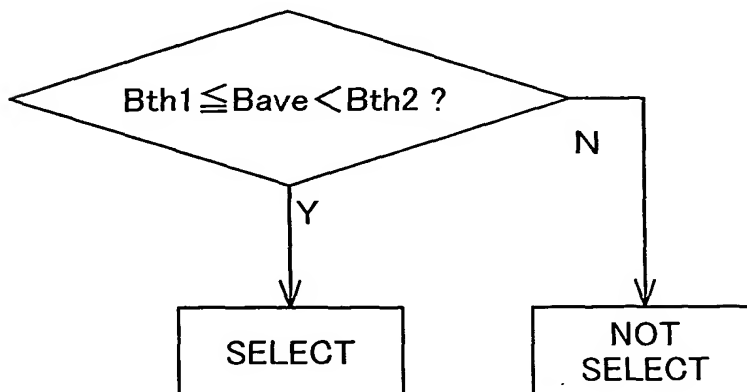
Fig.23(c)



low brightness
small average
brightness value

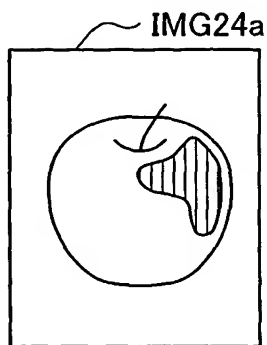
Fig.23(d)

Bave: average brightness value
Bth1: lower limit of proper range
Bth2: upper limit of proper range



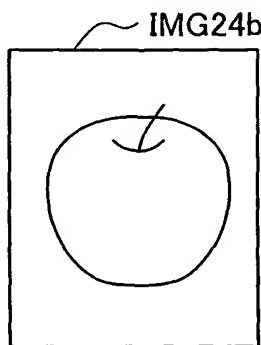
Embodiment 2 of Image Selection Based on
Brightness Characteristic of an Image

Fig.24(a)



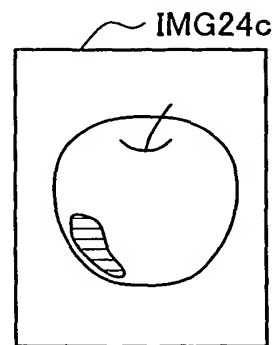
high brightness
large clipping
pixel proportion

Fig.24(b)



proper brightness
small clipping
pixel proportion

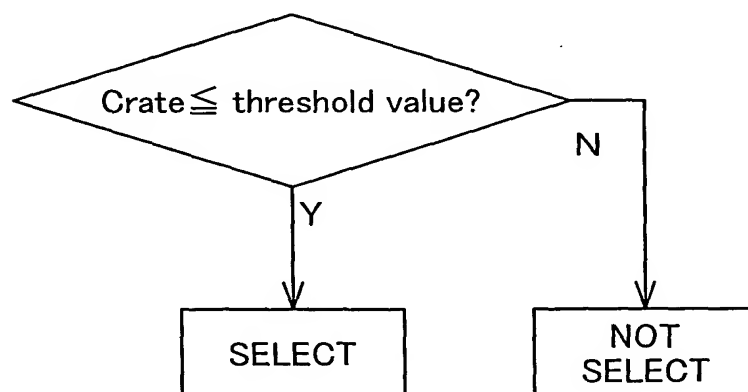
Fig.24(c)



low brightness
large clipping
pixel proportion

Fig.24(d)

Crate: clipping pixel proportion



Embodiment 1 of Image Selection Based on
Camera Shake Characteristic of an Image

Fig.25(a)

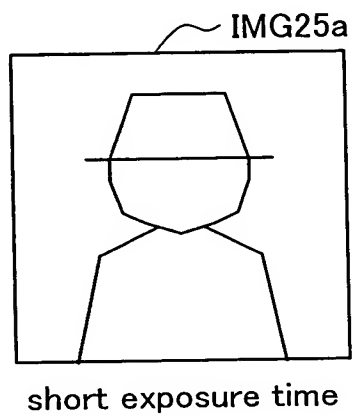


Fig.25(b)

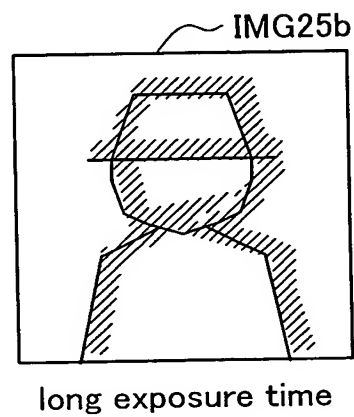
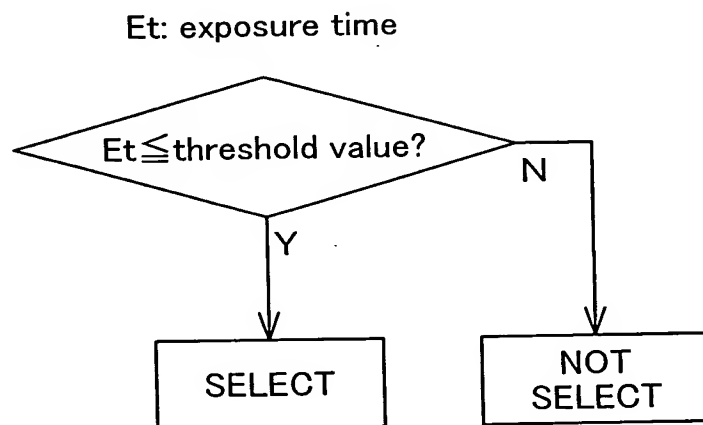
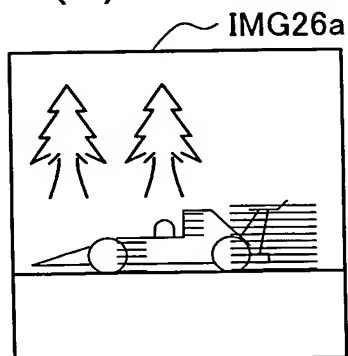


Fig.25(c)



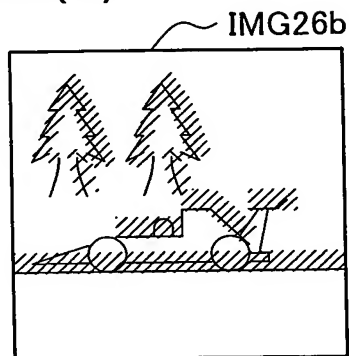
Embodiment 2 of Image Selection Based on Camera Shake Characteristic of an Image

Fig.26(a)



long exposure time,
manual setting

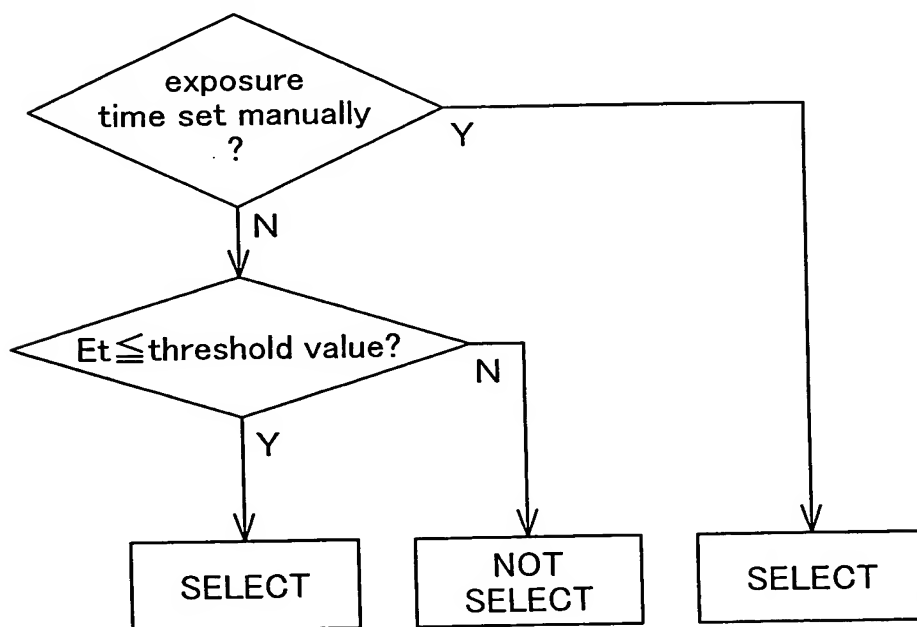
Fig.26(b)



long exposure time,
automatic setting

Fig.26(c)

Et: exposure time



Embodiment 3 of Image Selection Based on Camera Shake Characteristic of an Image

Fig.27(a)

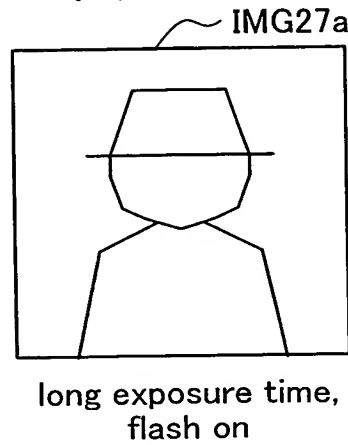


Fig.27(b)

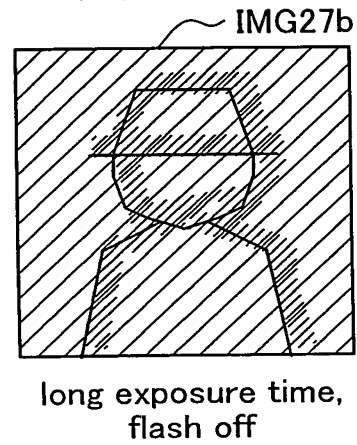
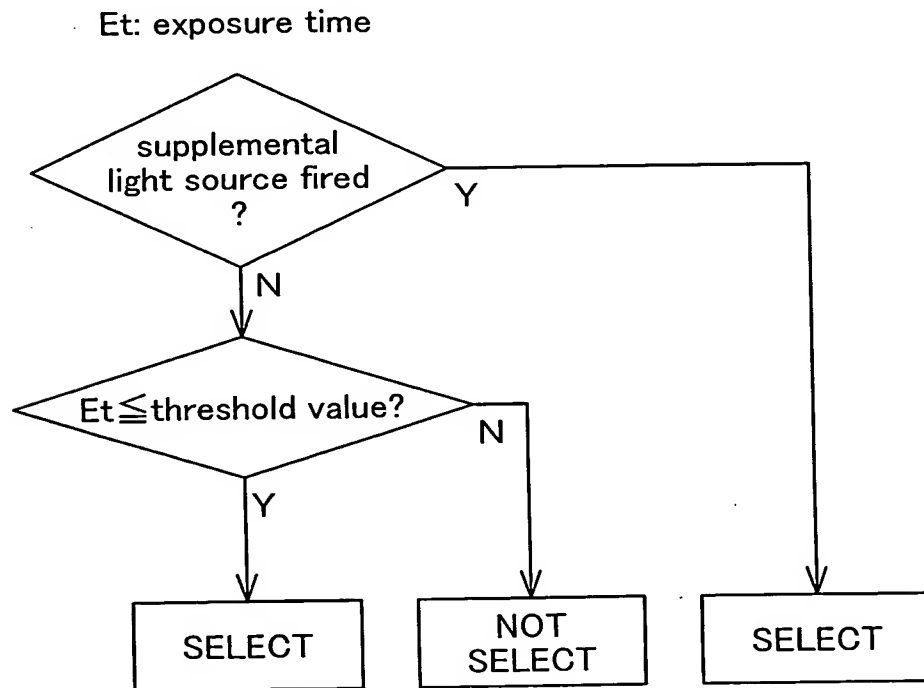


Fig.27(c)



Embodiment 4 of Image Selection Based on
Camera Shake Characteristic of an Image

Fig.28(a)

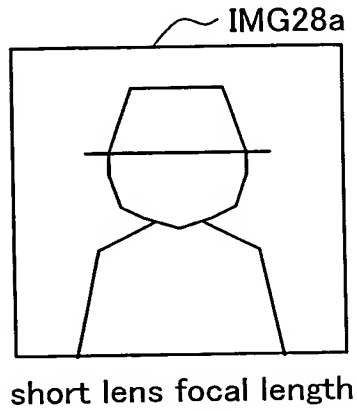


Fig.28(b)

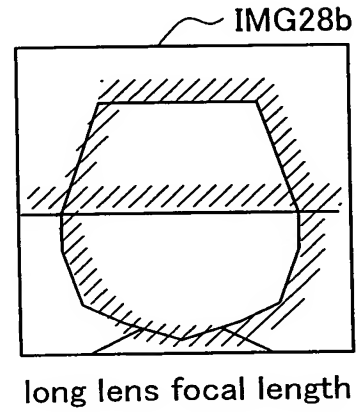


Fig.28(c)

Et: exposure time

Etthd: threshold value
(set depending on lens focal length)

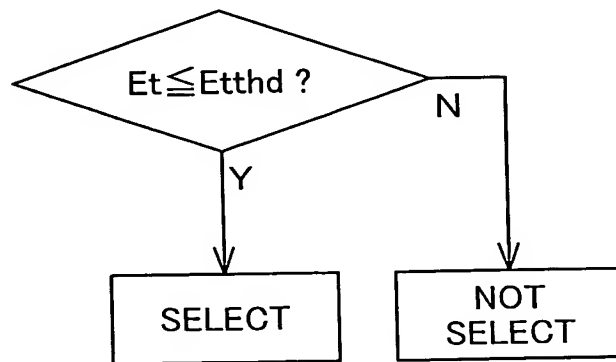


Fig.29

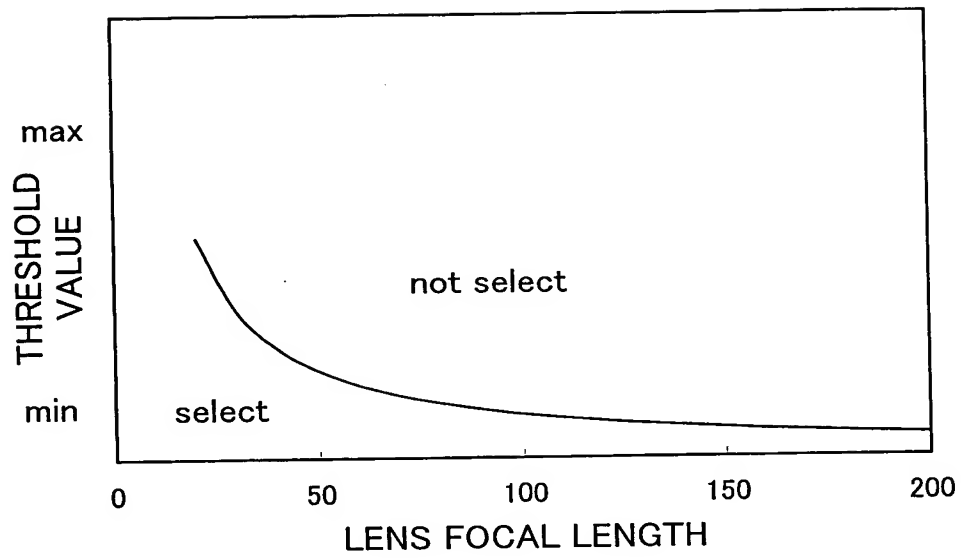


Fig.30

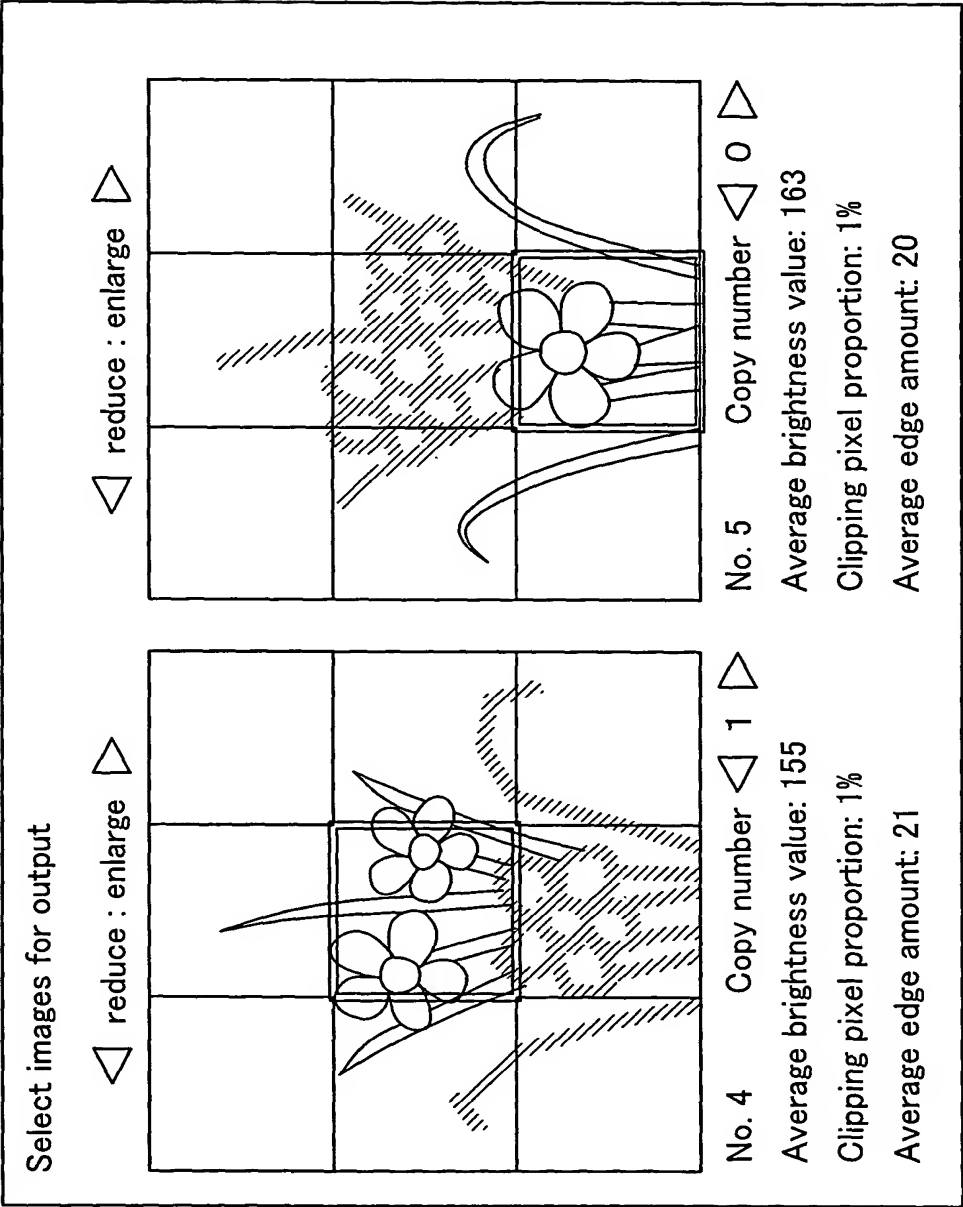


Fig.31

